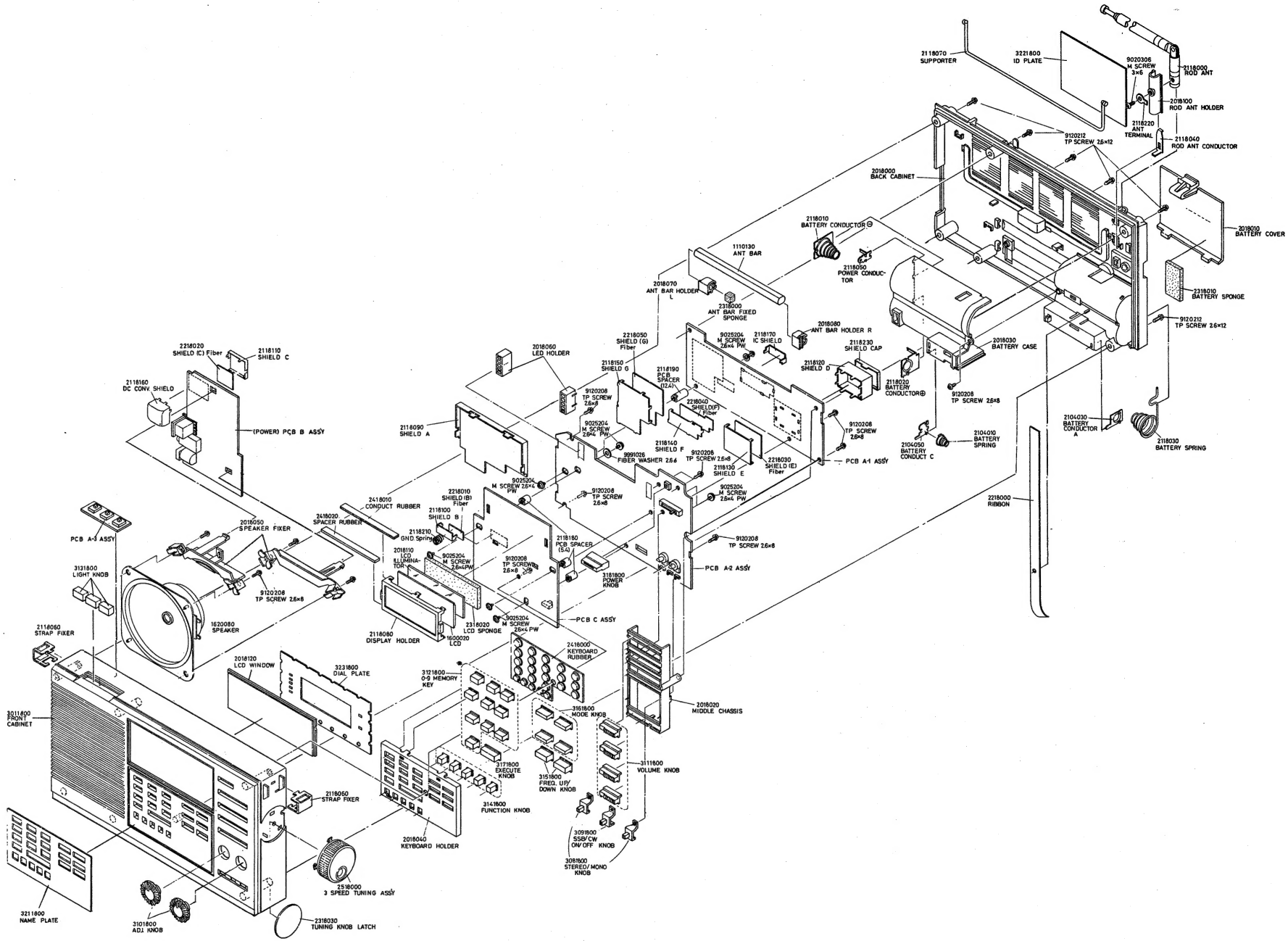
Quelle INTERNATIONAL

Technischer Kundendienst

127.0206

BESTELL-NR.	1270206
GERAETEBEZEICHNUNG	UNIV.-WELTEMPFAENGER
WARENGATTUNG	650
AUSFUEHRUNGS-NR.	001
GERAETEBESCHREIBUNG	PLL.15-BAND STEREO U.KH.
PRIVILEG	TR 3061
LIEFERANTEN-NR.	5949
PREIS	498.00
KATALOG	862
GARANTIEZEIT	6
KD-SEKTOR	R
HEIM/BRINGE	WERKSTATT
BETREUUNG	EIGEN
KOSTENTRAEGER	EIGEN
REPARATURFAEHIG	JA

6700-451/1184


2118070 SUPPORTER
3221800 ID PLATE
9020306 M SCREW 3×6
2118000 ROD ANT
2018100 ROD ANT HOLDER
2118220 ANT TERMINAL
9120212 TP SCREW 2.6×12
2118040 ROD ANT CONDUCTOR
2018000 BACK CABINET
2018010 BATTERY COVER
2118010 BATTERY CONDUCTOR ⊖
1110130 ANT BAR
2118050 POWER CONDUCTOR
2018070 ANT BAR HOLDER L
2318000 ANT BAR FIXED SPONGE
2018080 ANT BAR HOLDER R
2218010 BATTERY SPONGE
9120212 TP SCREW 2.6×12
2018030 BATTERY CASE
2218050 SHIELD (G) Fiber
2118170 IC SHIELD
2118230 SHIELD CAP
2118120 SHIELD D
2118020 BATTERY CONDUCTOR ⊕
9120208 TP SCREW 2.6×8
2104030 BATTERY CONDUCTOR A
2104090 BATTERY SPRING
2218030 BATTERY SPRING
2218000 RIBBON
2218020 SHIELD (C) Fiber
2118110 SHIELD C
2118160 DC CONV. SHIELD
(POWER) PCB B ASSY
2018060 LED HOLDER
2118150 SHIELD G
2118190 PCB SPACER (12.4)
9120208 TP SCREW 2.6×8
2118040 SHIELD(F) Fiber
9025204 M SCREW 2.6×4 PW
2118140 SHIELD F
9991026 FIBER WASHER 2.6
9120208 TP SCREW 2.6×8
2218030 SHIELD (E) Fiber
PCB A-1 ASSY
2118130 SHIELD E
2118090 SHIELD A
2218010 SHIELD (B) Fiber
2118100 SHIELD B
2418010 CONDUCT RUBBER
2418020 SPACER RUBBER
2118210 GND Spring
2018110 LCD ILLUMINATOR
2118180 PCB SPACER (5.0)
3161800 POWER KNOB
PCB A-2 ASSY
PCB A-3 ASSY
2018050 SPEAKER FIXER
3131800 LIGHT KNOB
1620080 SPEAKER
2118060 STRAP FIXER
2118080 DISPLAY HOLDER
2318020 LCD SPONGE
1600020 LCD
PCB C ASSY
2018120 LCD WINDOW
3231800 DIAL PLATE
2418000 KEYBOARD RUBBER
3121800 0-9 MEMORY KEY
3161800 MODE KNOB
2018020 MIDDLE CHASSIS
3011800 FRONT CABINET
3171800 EXECUTE KNOB
3111800 VOLUME KNOB
3151800 FREQ. UP/ DOWN KNOB
2118050 STRAP FIXER
2018040 KEYBOARD HOLDER
3141800 FUNCTION KNOB
3091800 SSB/CW ON/OFF KNOB
3081800 STEREO/MONO KNOB
2318000 3 SPEED TUNING ASSY
3211800 NAME PLATE
3101800 ADJ KNOB
2318030 TUNING KNOB LATCH

ATS-803 Schematic Diagram

SPECIFICATION MAY BE CHANGED WITHOUT NOTICE

PCB A-1

PCB A-2

PCB A-3

PCB B

PCB C

TUNING CONTROL

D407 Existed for 12 hour mode
D408 Existed for FM 76MHz mode
D409 Existed for AM 261MHz mode

NOTES

Res-stance in Ω, K=10^3Ω, M=10^6Ω
Capacitance in μF, P=10^{-6}μF
Mylar Capacitor ---------
Polystyrence Capacitor -----
Electrolytic Capacitor------
Tantalum Capacitor ------
Tubler Ceramic Capacitor---
No mark---Ceramic Capacitor

BOTTOM VIEW

TOP VIEW (PIN CONFIGURATION) SIDE VIEW

μPC1018 LA3361
μPC1263 CX7981
M51521
LA5003
μPD7503
TA7366

PCB B

PCB A-1

PCB C

PCB A-2

PCB A-3

TUNING ASS'Y

TO BATT. CONDUCT

ROD ANT

TO SPEAKER

IC401 μPC-1263C

IC402 μPD 7503

IC401 CX7961-1

IC101

IC102

IC1 BPC-1616C

IC201 LM1823

LP401

X401 4500KHZ

X402 32.768KHZ

VT401 30P

VT402 20P

VT403 100K

VR201 1MB0

VR202 1MB

VR203 50KBX2

VR204 50KBX2

VR205 50KBX2

VR206 100KW

S201 LOCK SW

S202 BFO SW

S203

S204 POWER SW

S401 SK/10K SWITCH

S501 LIGHT

S502 TIMER

S503 SLEEP

BASS

TREBLE

BALANCE

VOLUME

TO SHIELD

EXECUTE

STOP

MEMO

PLAY

W321 (BLK)

W532

W531

W533

W534

W535

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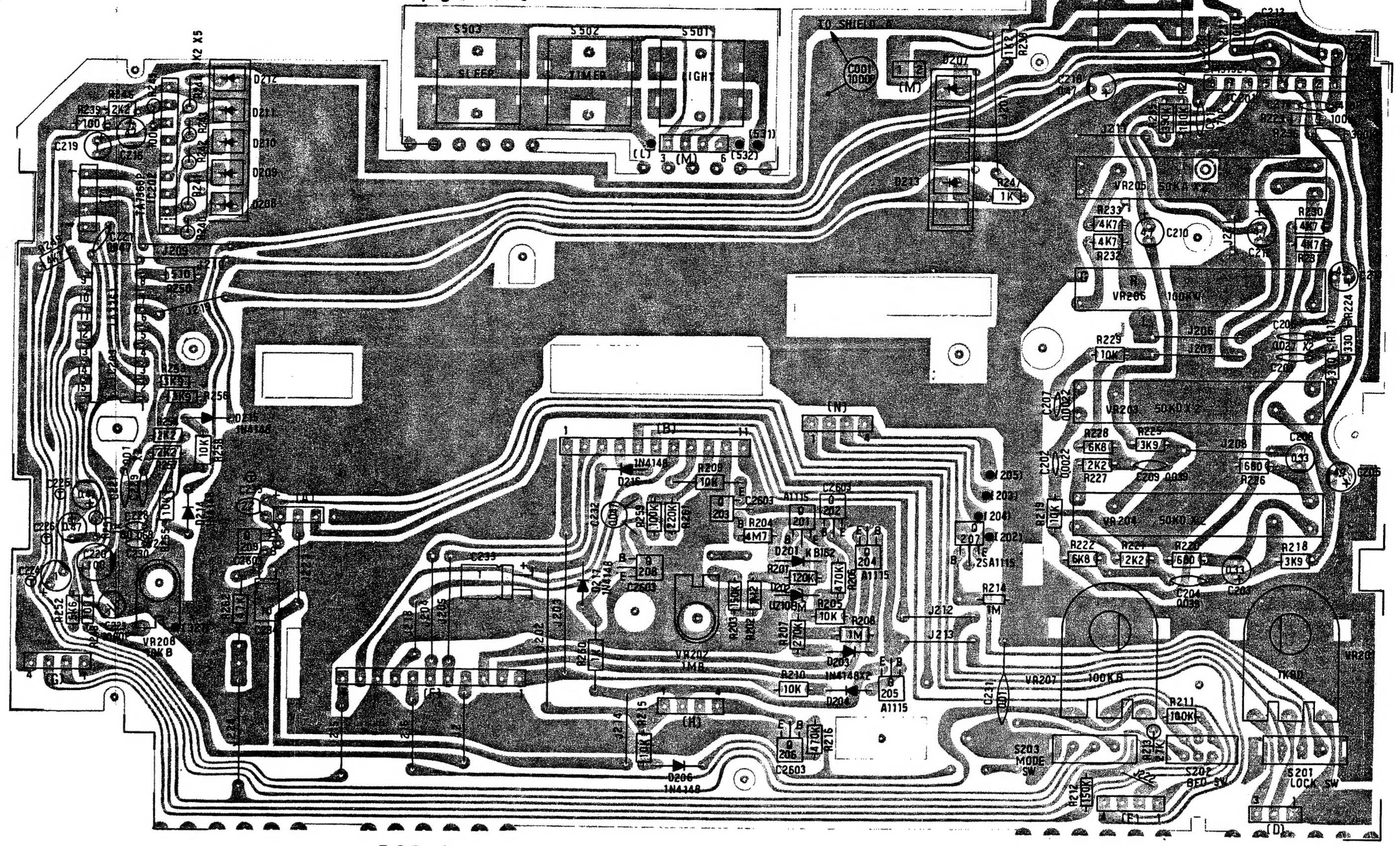
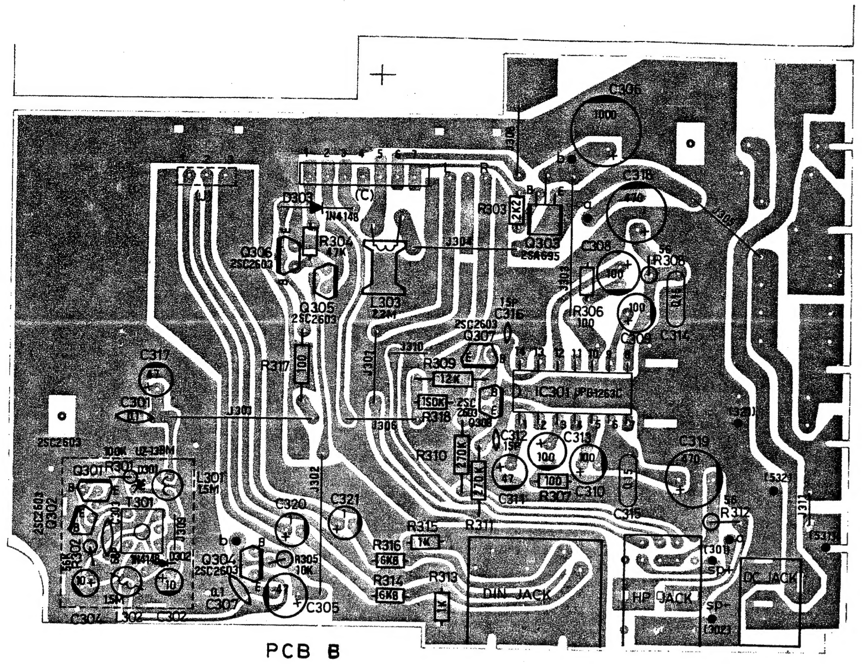
PCB A-3

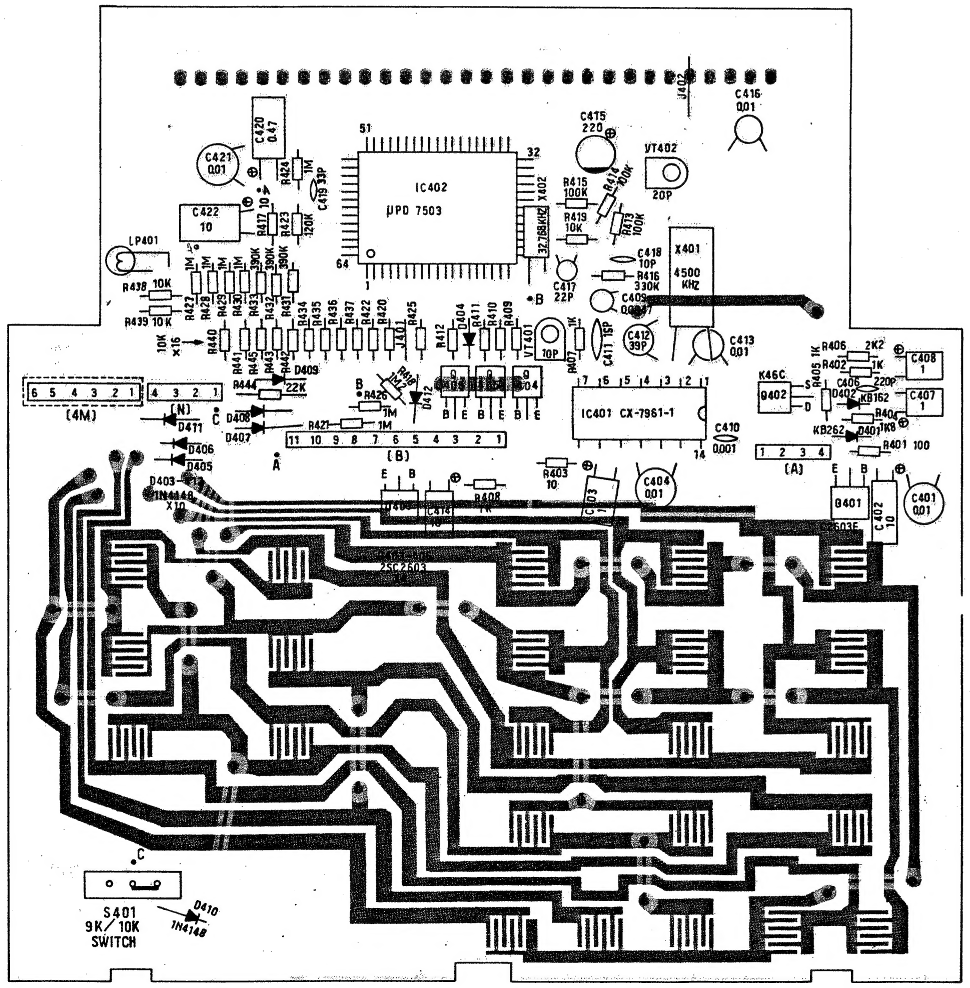


PCB A-2

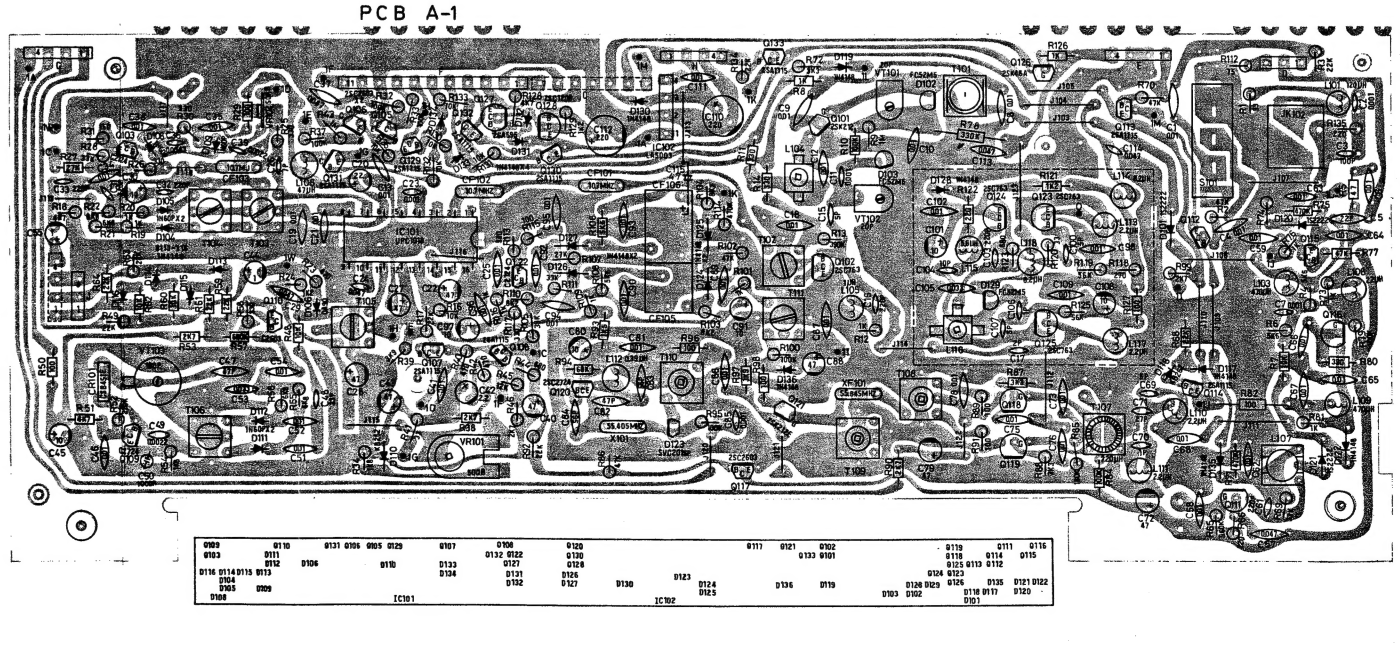


PCB B

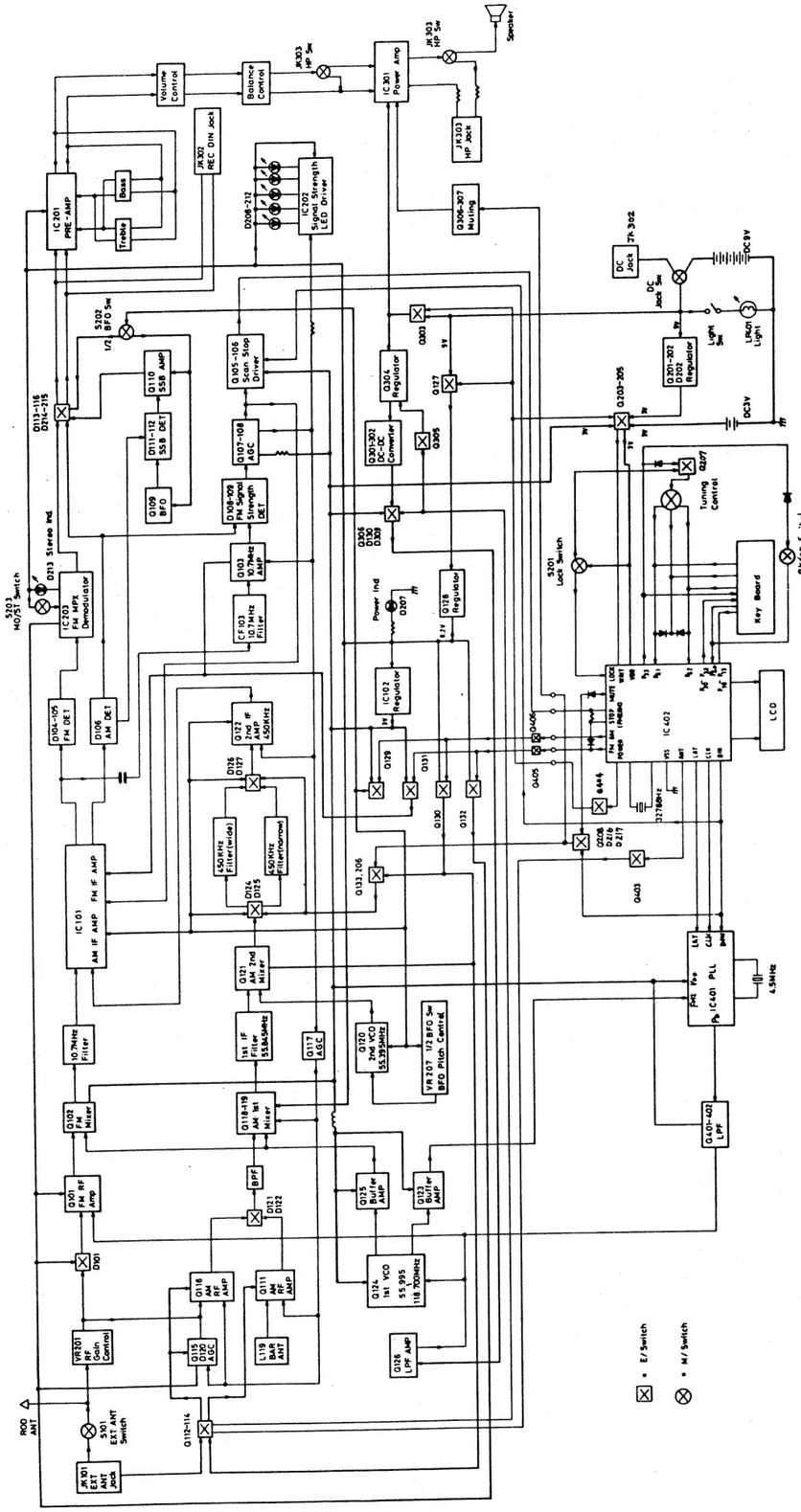
PCB C



PCB A-1



ATS-803 BLOCK DIAGRAM



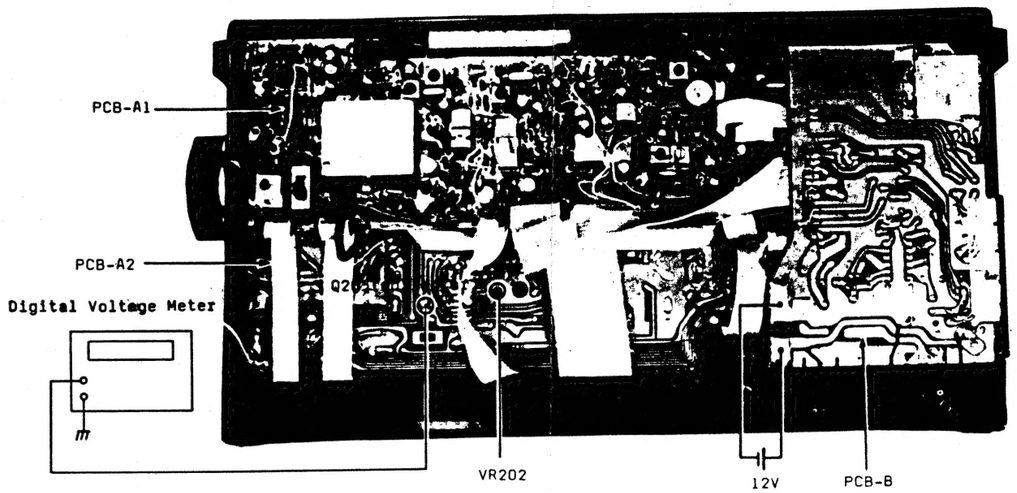
TUNER ALIGNMENT INSTRUCTION

1. V_{DD} ALIGNMENT (Main power supply voltage > 10V)

   * CONDITION: Power "OFF"
     Connect main power supply voltage with 12V DC

   * INSTRUMENT CONNECTION:
     Connect a digital voltage meter to the collector terminal of Q205 and ground.

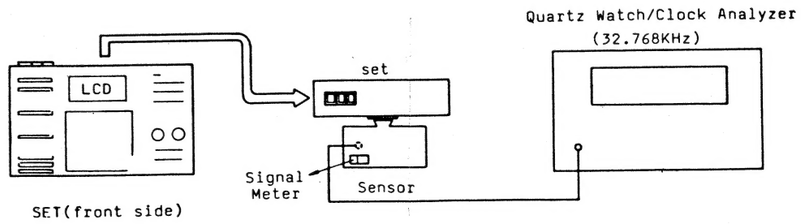
   * ADJUST POINT & METHOD:
     Adjust VR202 thru the hole on the bottom side of PCB-A2 to read the V_{DD} voltage being 3.05V



2. CLOCK TIME ACCURACY ALIGNMENT

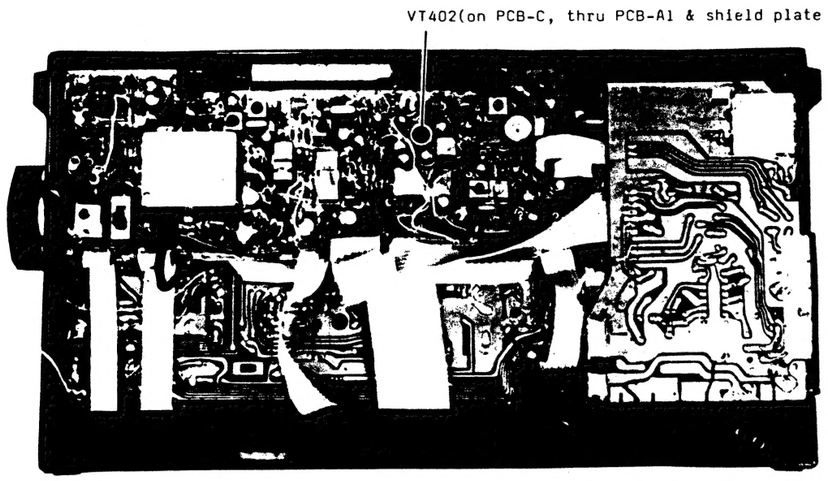
   * CONDITION: Power "OFF"

   * INSTRUMENT CONNECTION:
     Put LCD display near the sensor of Quartz Watch/Clock Analyzer and move the set to the position to get the Max.signal indicated.



* ADJUST POINT & METHOD:

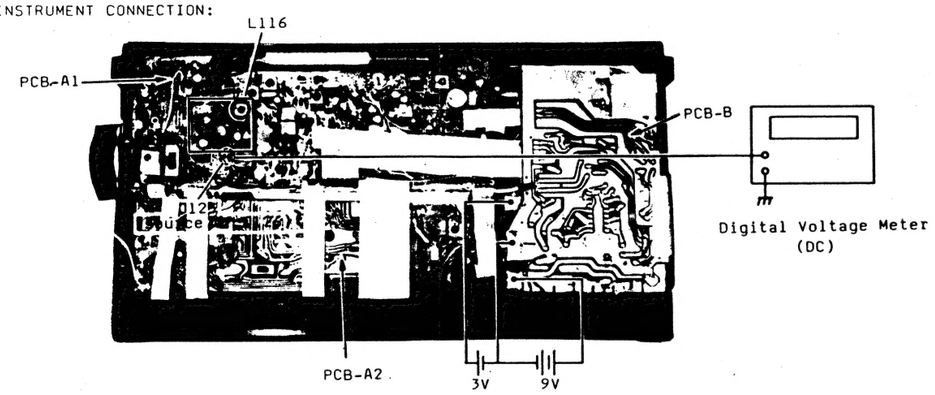
Adjust VT402 for zero error (±0 ppm or ±0 second/month) indicated on Quartz Watch/Clock Analyzer.



3. VCO1 VOLTAGE RANG ALIGNMENT

* CONDITION: Power "ON"
FM band 108MHz
LW band 150KHz (BFO switch "OFF")

* INSTRUMENT CONNECTION:



* ADJUST POINT & METHOD:

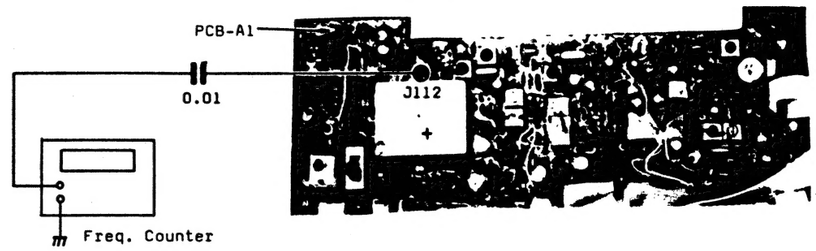
a. Open the shield cover and set FM 108MHz, adjust L116 to the reading of meter to 9.2-10V DC
b. Then set LW 150KHz to check the reading must be highter than 1.30V
c. Re-cover the shield cover

4. PLL FREQUENCY ALIGNMENT

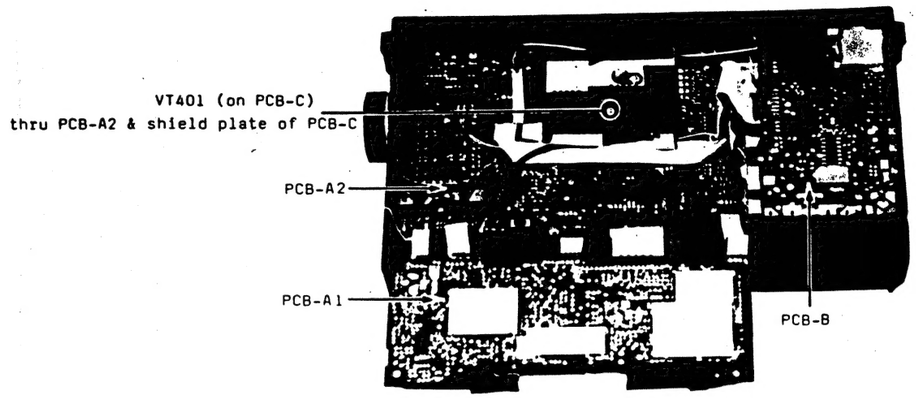
* CONDITION: Power "ON" band "FM" FREQ. "108MHz"

* INSTRUMENT CONNECTION:

Connect a freq. counter to J112 and ground.



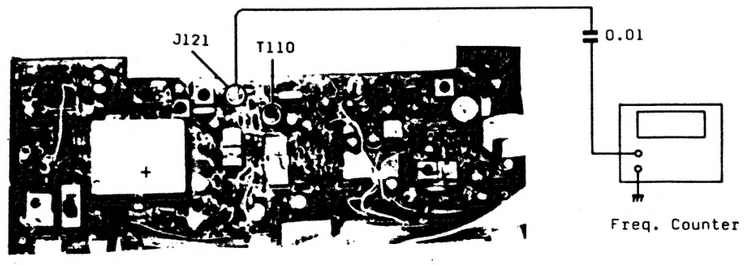
* ADJUST POINT & METHOD: Adjust VT401 for the counter reading is EXACT 118700KHz



5. AM 2nd LOCAL OSC ALIGNMENT

* CONDITION: Power"ON"
band "AM" any freq. (BFO switch "OFF")

* INSTRUMENT CONNECTION: Connect freq. counter to J121 and ground.

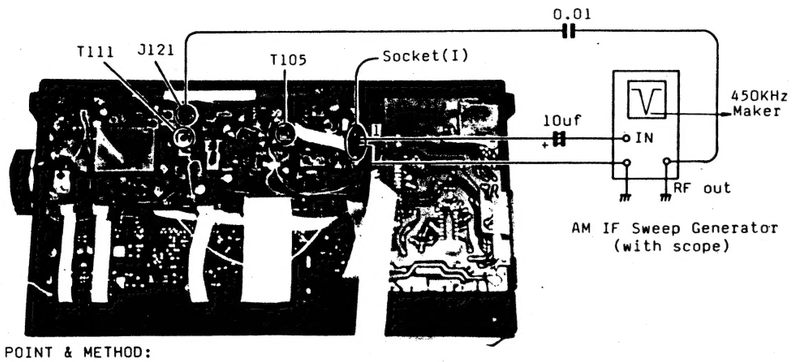


* ADJUST POINT & METHOD: Adjust T110 for the counter reading is 55395KHz
CAUTION:Because the counter connected to J121 cause loading to the circuit, so, the reasonable adjust reading must be highter than 55395KHz. (You can adjust T110 for reading 55397KHz) and T110 must be carefully readjusted on the process will be mentioned later

6. AM 2nd IF ALIGNMENT

* CONDITION: Power "ON"
  Tune band "AM" any freq. (BFO switch "OFF")

* INSTRUMENT CONNECTION: AM IF sweep generator RF input to J121 terminal (1) of socket (I) connect to sweep scope input terminal

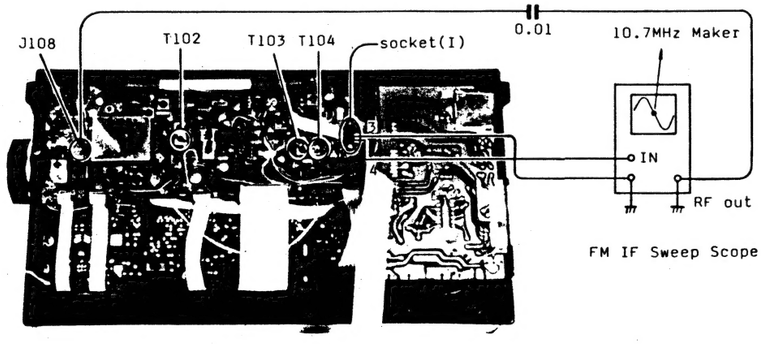


* ADJUST POINT & METHOD:
  a. Adjust T111 for Max. 450KHz output
  b. Adjust T105 for Max. 450KHz output
  c. Reapeat a & b until 450KHz output is Max.

7. FM IF ALIGNMENT

* CONDITION: Power "ON"
  Band "FM" any freq.

* INSTRUMENT CONNECTION:
  FM IF Sweep Generator RF input to J108 terminal (4) of socket (I) connected to sweep scope input terminal

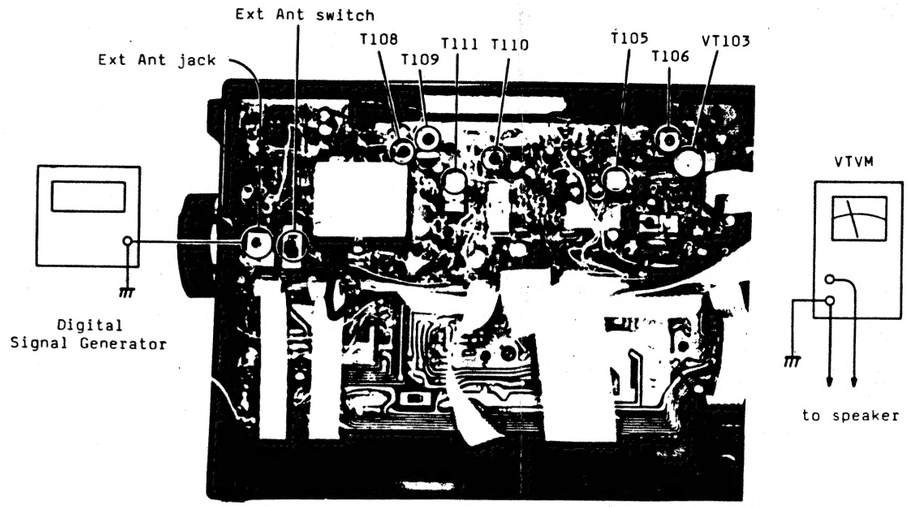


* ADJUST POINT & METHOD:
  Adjust T102,T103,T104 for Max. output and best symmetrical S curve

8. AM SENSITIVITY ALIGNMENT

* CONDITION: Power "ON"
  band "SW" any freq. BFO switch "OFF"
  RF GAIM "MAX" 30%, 1KHz Mod. Ext Ant switch on "EXT" position

* INSTRUMENT CONNECTION:
  Signal generator output fed to Ext Ant jack.
  VTVM connect to speaker



* ADJUST POINT AND METHOD:
  a. Tune the radio and the signal generator to EXACT same freq.
  b. Adjust T108, T109 for Max. Audio output.
  c. Adjust T111, T105 for Max. Audio output.
  d. Carefully adjust T110 for Max. Audio output.
  e. Reapeat a-d for Max. Audio output.
  f. Detune the signal generator +4KHz and -4KHz from the radio freq. to check the output differance, the difference should be within 3db, otherwise, adjust T110 slightly and recheck. Carefully adjust T110 to make them.
  g. For best performance, output are nearly the same value.

9. BFO ALIGNMENT

* CONDITION: Power "ON"
  band "SW" any freq. BFO switch "ON"
  BFO pitch "Center" position
  Signal Generator no modulation (callier only)

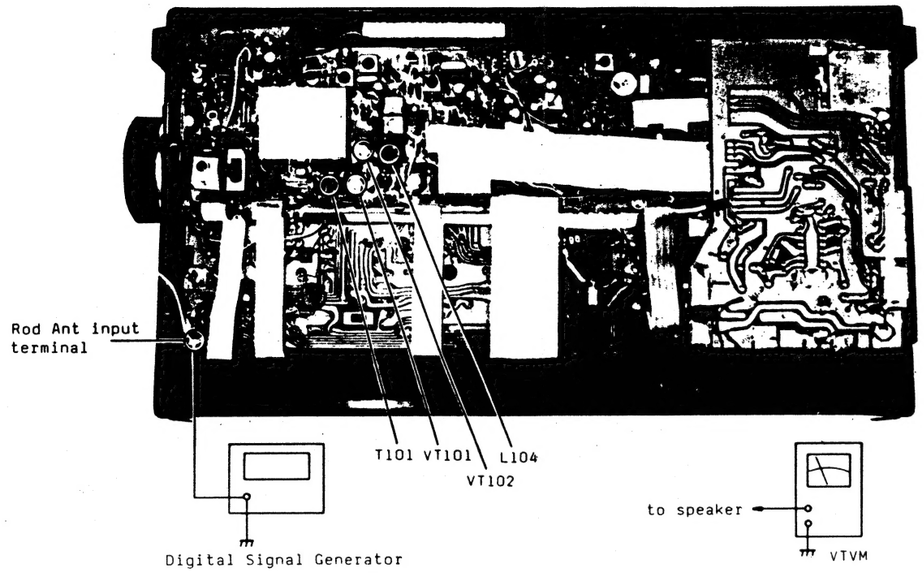
* INSTRUMENT CONNECTION:
  Same as No. 8 (AM Sens. Alignment)

* ADJUST POINT AND METHOD:
  tune the radio and the Signal Generator to exect same freq.
  a. Tune the radio and the Signel Generator to exact same freq.
  b. Adjust VT103 for zero best (Be sure the BFO pitch control be in the center position)
  See Fig. of No. 8

10. FM SENSITIVITY ALIGNMENT

* CONDITION: Power "ON"
band "FM" 90MHz, 106MHz. RF GAIN "MAX"
22.5KHz Dev. 1KHZ mod.

* INSTRUMENT CONNECTION:
Signal Generator output fed to the terminal where Rod Ant is connected.
VTVM connect to speaker

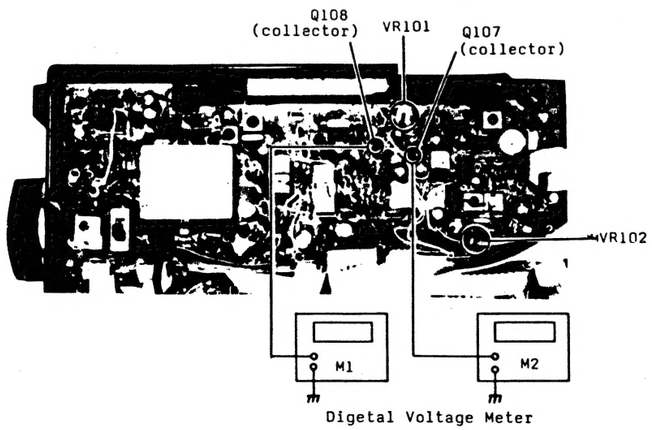


* ADJUST POINT AND METHOD:
a. Tune to 90MHz adjust L104,T101 for Max. output
b. Tune to 106MHz adjust VT102,VT101 for Max. output
c. Repeat a-b until get best sens. on these two freq.

11. SIGNAL LEVEL & STOP LEVEL ALIGNMENT

* CONDITION: Power "ON"
band "AM" 26100KHz BFO switch "OFF"
(be sure there is no signal fed in or recept by the radio)

* INSTRUMENT CONNECTION:
Connect a digital voltage meter M1 to the collector of Q108 and
another digital voltage meter M2 to the collector of Q107

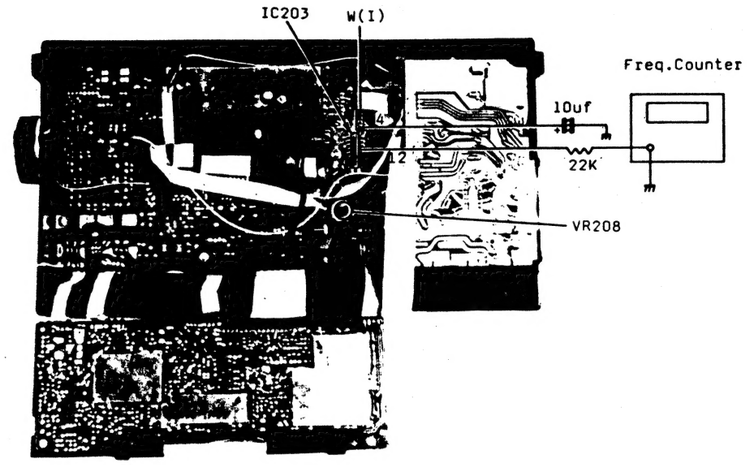


* ADJUST POINT AND METHOD:
a. Adjust VR101 for M1 reading 1.95V.
b. Adjust VR102 for M2 reading 0.5V
c. Repeat a-b until the M1,M2 reading 1.95V and 0.5V

12. MPX ALIGNMENT

* CONDITION: Power "ON"
band "FM" any freq. FM mode switch on Stereo position

* INSTRUMENT CONNECTION:
By pass wire (4) of W(I) or Pin 2 of IC203 to ground with 10uf.
connect a freq counter to pin 12 (series with 22K resistor) of IC203



* ADJUST POINT AND METHOD: Adjust VR208 for counter reading is 19KHz

ZEILE	POSITION	SYM	BEZEICHNUNG	ET-NUMMER
1				
2	2018000		RUECKWAND	730 849 7
3	2018010		BATTERIEFACHDECKEL	730 850 5
4	2018020		PLASTIKRAHMEN	730 889 3
5	2018030		BATTERIEBEHAELTER	730 851 3
6	2018040		PLASTIKRAHMEN FUER KNOEPFE	730 852 1
7	2018050		PLASTIKHALTER FUER LAUTSPRECHER	730 853 9
8	2018060		PLASTIKHALTER,DIODEN	730 854 7
9	2018070		HALTER,LINKS	730 855 4
10	2018080		HALTER,RECHTS	730 856 2
11	2018100		HALTER,FUER TELESKOPANTENNE	730 857 0
12	2018110		REFLECTOR	730 858 8
13	2018120		KLARSICHTSCHEIBE	730 859 6
14	2104030		BATTERIEKONTAKT,PLUS	730 861 2
15	2104050		BATTERIEKONTAKT,MINUS	730 862 0
16	2118000		TELESKOPANTENNE	730 860 4
17	2118010		BATTERIEKONTAKT,MINUS	730 863 8
18	2118020		BATTERIEKONTAKT,PLUS	730 864 6
19	2118030		BATTERIEKONTAKT,PUS-MINUS	730 865 3
20	2118050		KONTAKTGEBER	730 866 1
21	2118060		HALTER FUER SCHULTERRIEMEN	730 867 9
22	2118070		METALLBUEGEL	730 868 7
23	2118080		HALTER FUER DISPLAY	730 869 5
24	2318030		ABDECKSCHEIBE	730 870 3
25	2418000		GUMMI-KONTAKTPLATTE	730 871 1
26	2518000		SENDERWAHLKNOPF KPL.	730 872 9
27	2518010		ANTENNENANSCHLUSSADAPTER	730 873 7
28	3011800		VORDERTEIL	730 874 5
29	3081800		KNOPF STEREO-MONO	730 875 2
30	3091800		KNOPF,BFO,LOCK	730 876 0
31	3101800		KNOPF,BFO,RF GAIN	730 877 8
32	3111800		KNOPF,SCHIEBEREGLER	730 878 6
33	3121800		KNOPF,MEMORY 0-9	730 879 4
34	3131800		KNOPF,LIGTH,TIMER,SLEEP	730 880 2
35	3141800		KNOPF,BEREICH	730 881 0
36	3151800		KNOPF,UP,DOWN	730 882 8
37	3161800		KNOPF,MODE-CALL-MEMO	730 883 6
38	3171800		KNOPF,EXECUTE	730 884 4
39	3181800		KNOPF,POWER	730 885 1
40	3211800		ZIERPLATTE FUER KNOEPFE	730 886 9
41	3231800		ZIERPLATTE FUER DISPLAY	730 887 7
42			SCHULTERRIEMEN	730 888 5
43			NETZTEIL 9V	730 890 1
44				
45	CF101,102		KERAMIK-FILTER SFE 10.7 MA8-A	730 846 3
46	CF103		KERAMIK-FILTER SFE 10.7 MJ-A	730 847 1
47	CF105		KERAMIK-FILTER SFP 450H	730 844 8
48	CF106		KERAMIK-FILTER SFR 450K	730 845 5
49	CR101		KERAMIK-FILTER 451 KHZ	730 838 0
50	D101		DIODE 1S 2222	948 051 8
51	D102,103		CAP.-DIODE FC-52M-5	730 809 1
52	D104-109		DIODE OA 90	175 029 8
53	D110		DIODE KB 262	176 464 6
54	D111,112		DIODE OA 90	175 029 8
55	D113-117		DIODE 1 N 4148	175 540 4
56	D118,401		DIODE KB 262	176 464 6
57	D119		DIODE 1 N 4148	175 540 4
58	D120,121		DIODE 1S 2222	948 051 8
59	D122,124		DIODE 1 N 4148	175 540 4
60	D123		VARICAP DIODE SVC-201	924 760 2
61	D125-128		DIODE 1 N 4148	175 540 4
62	D129		CAP.-DIODE FC-52M-5	730 809 1
63	D130-136		DIODE 1 N 4148	175 540 4
64	D201,402		DIODE KB 162	920 794 5
65	D202		ZENERDIODE RD 10 EB B2	952 236 8
66	D203-206		DIODE 1 N 4148	175 540 4
67	D207-212		LEUCHTDIODE LN 210 RP	953 936 2
68	D213		LED LN 342 GP	986 698 9
69	D214-217		DIODE 1 N 4148	175 540 4
70	D301		ZENERDIODE RD 13 EB	959 478 9
71	D302,303		DIODE 1 N 4148	175 540 4
72	D404-412		DIODE 1 N 4148	175 540 4
73	IC101		IC UPC 1018 C	951 372 2
74	IC102		IC LA 5003	730 803 4
75	IC201		IC M 51521 L	951 176 7
76	IC202		IC TA 7366 P	730 804 2
77	IC203		IC LA 3361	952 038 8
78	IC301		IC UPC 1263 C	730 805 9
79	IC401		IC CX 7961-1	730 806 7
80	IC402		IC UPD 7503C-269-11	730 802 6
81	JK101		ANTENNEN-BUCHSE	730 837 2
82	JK301		DIN-BUCHSE	730 836 4
83	JK302		SPANNUNGS-BUCHSE	730 835 6

ZEILE	POSITION	SYM	BEZEICHNUNG	ET-NUMMER
84	JK303		KOPFHOERER-BUCHSE	730 834 9
85	L104		FM-FILTER	730 821 6
86	L116		FM-FILTER	730 816 6
87	L119		FERRITANTENNE M.T SPULE	730 810 9
88	LP401		LAMPE,8V 50 MA	730 848 9
89	Q101		TRANSISTOR 2 SK 212 F	985 930 7
90	Q102		TRANSISTOR BF 200	175 901 8
91	Q103,109		TRANSISTOR 2 SC 2724 C-D	730 807 5
92	Q105,106		TRANSISTOR 2 SC 2603 F	965 943 4
93	Q107,108		TRANSISTOR 2 SA 1115 F	965 942 6
94	Q110		TRANSISTOR 2 SC 2603 F	965 943 4
95	Q111,116		TRANSISTOR 2 SK 152	965 919 4
96	Q112-114		TRANSISTOR 2 SA 1115 F	965 942 6
97	Q115,117		TRANSISTOR 2 SC 2603 F	965 943 4
98	Q118,119		TRANSISTOR 2 SK 152	965 919 4
99	Q120,122		TRANSISTOR 2 SC 2724 C-D	730 807 5
100	Q121		TRANSISTOR 2 SK 212 F	985 930 7
101	Q123-125		TRANSISTOR BF 200	175 901 8
102	Q126,402		TRANSISTOR 2 SK 46 C	730 808 3
103	Q127,303		TRANSISTOR BC 636-16	952 194 9
104	Q128		TRANSISTOR 2 SC 1209 D	924 997 0
105	Q129-133		TRANSISTOR 2 SA 1115 F	965 942 6
106	Q201,204		TRANSISTOR 2 SA 1115 F	965 942 6
107	Q202,203		TRANSISTOR 2 SC 2603 F	965 943 4
108	Q205,207		TRANSISTOR 2 SA 1115 F	965 942 6
109	Q206		TRANSISTOR 2 SC 2603 F	965 943 4
110	Q208,209		TRANSISTOR 2 SC 2603 F	965 943 4
111	Q301-308		TRANSISTOR 2 SC 2603 F	965 943 4
112	Q401-406		TRANSISTOR 2 SC 2603 F	965 943 4
113	S101		SCHIEBESCHALTER	730 833 1
114	S201,203		SCHIEBESCHALTER	730 831 5
115	S202		SCHIEBESCHALTER	730 832 3
116	S204		TIPSCHALTER	730 830 7
117	S401		SCHIEBESCHALTER	730 831 5
118	S501-503		TIPSCHALTER	730 830 7
119	T101		FM-FILTER	730 820 8
120	T102		FM-ZF-FILTER	730 819 0
121	T103		FM-ZF-FILTER	730 815 8
122	T104		FM-ZF-FILTER	730 814 1
123	T105		AM-ZF-FILTER	730 813 3
124	T106		SSB-FILTER	730 822 4
125	T107		BPF-FILTER	730 823 2
126	T108,109		AM-ZF-FILTER	730 812 5
127	T110		FILTER,55395 KHZ	730 811 7
128	T111		AM-ZF-FILTER	730 817 4
129	T301		DC-FILTER	730 818 2
130	VR201		DREHPOTI 1K	730 828 1
131	VR203,204		SCHIEBEREGLER 2X50 KD	730 825 7
132	VR205		SCHIEBEREGLER 2X50 KA	730 824 0
133	VR206		SCHIEBEREGLER 100 KW	730 826 5
134	VR207		DREHPOTI 100 K	730 827 3
135	X101		QUARZ 55.405 MHZ	730 842 2
136	X401		QUARZ 4500 KHZ	730 841 4
137	X402		QUARZ 32.768 KHZ	730 839 8
138	XF101		FILTER,55.845 MHZ	730 840 6

ENDE